

Mechanism of Conversion of Isoprene to Rubber and
Beta-Mycerans to Rubber-Formation of Natural Rubber
in the Sap of Tropical Plants, by I. Ostromenelskiy,
5 pp.

RUSSIAN, per, Zhur Fiz Khim Vol, XLVII, 1915,
pp 1941-1947.

SLA R-1018

Sci
May 58

63,732

The Nature of Vulcanization. Chapter II. Cold
Vulcanization, by B. V. Bysoff, M. K. Popoff, 17 pp.

RUSSIAN, per, Zhur Fiz, Khim, Vol LIII, 1921,
pp 20-65.

SLA R-1020

Sci
May 58

63,968

Adsorption of Gas From a Stream of Air by
M. S. Dabidze, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol LXII, 1930,
689-692. CTA D 177536

NIH 5-48
Def Sci Info Svc
DRB T 168 R

Scientific - Chemistry

April 55 CTS

22,403

The Absorption of Gas From a Stream of Air.
II. The Time of Protective Action of the First Layers
of an Adsorbent Bed, by M. M. Dubinin, S. I.
Parshin, A. A. Pupyrev, 5 pp.

RUSSIAN, per, Zhur Obshch. Khim, SSSR, Vol
LXII, 1930, pp. 193-194, 1951.

AEC Tr 2135

DRB - T-117 R

Scientific - Chemistry

May 55 CTS/DEX

24,091

Absorption Properties and Structure of Silica
Gel, by M. Polyakov.
RUSSIAN, per, Zhurnal Fizicheskii Khimii, No 6,
Vol 2, 1931, pp 799-805
CSIRO/No 7214

Sci -
Jul 67

334,511

Lukin, A. Ya.
SOME DATA ON THE AUTOCATALYTIC DECOMPO-
SITION OF NITROGLYCERIN. [1964] 19p (4 figs
6 tables omitted) 7 refs
Order from OTS, SLA or BTC \$1.60 TT-64-16066
Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1932,
v. 3, p. 406-418.

(Chemistry-Physical, TT, v. 12, no. 4)

TT-64-16066

L. Lukin, A. Ya.

Office of Technical Services

General Equation for the Energy of a Crystal
Lattice, A. F. Kapustinaky.
RUSSIAN, per, Zhur Fiz Khim, No 1, Vol V, 1934,
pp 59-76. 9290530
UCRL Tr 1260(L)

Sci - Math
Jan 66

294,424

Zagulin, A. V.
ON THE IGNITION POINT OF GASEOUS MIXTURES
AT VARIOUS PRESSURES. [1963] 16p (figs omitted)
Trefs
Order from OTS, SLA, or ETC \$1.60 TT-64-10770
Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1933,
v. 4, no. 1, p. 92-102.

DESCRIPTORS: *Explosive gases, Gases, Mixtures,
Hydrogen, Chlorine, Bromine, Carbon compounds,
Sulfides, Monoxides, Oxygen, Ethanes, Propenes,
Pentanes, Explosions, *Ignition, Pressure.

(Chemistry--Physical. TT. v. 11, no. 10)

TT-64-10770

I. Zagulin, A. V.

Office of Technical Services

Investigation of the LAF-LABO System
by Thermanalysis, by I. I. 2 Kitaigorod-
skiy, T. A. Popova, et al, 4 pp.

RUSSEIAN, per, Zhur Fiz Khim, Vol IV,
No 3, 1933, pp 380-382. 9066996

AEC Tr-5271

Sci - Chem
Oct 62

215, 536

The Catalytic Decomposition of Hydrogen Peroxide
Vapor, by V. A. Boiter, and S. S. Guchman.

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol. IX, No 4, USSR,
1933, pp 456-458.

ARC Tr 1924

Sci - Chem

The Mechanism of the Catalysis of Hydrogen Peroxide
on Platinum, by V. A. Roiter.

Full translation.

RUSSIAN, per, Zhur Fiz Khim, Vol IV, No 4, USSR,
1968, pp 457-460.

AEC Tr 1326

Encl - Chem

The Influence of Adsorbed Gas on Catalytic Activation
in the Catalytic Decomposition of Hydrogen Peroxide,
by A. Roiter, and I. G. Shafran.

Engl translation.

Russian, per, Zhur Fiz Khim, Vol IV, No 4, USSR,
1963, pp 460-464.

AEC Tr 1325

Chem

The Combined Effect of Radiation and Catalyst, by
Ya. K. Syrtin, I. N. Godnev, 10 pp.

RUSSIAN, par, Zhur Fiz Khim, Vol V, 1934, pp 32-37.
908958

AEC Tr-5153

Sci - Phys, Chem
Aug 62

207,514

Affinity of Metals for Sulfur, by
E. V. Britske, A. F. Kapustinskiy
RUSSIAN, per, Zhurnal Fizicheskoi Khimiy,
Vol. 5, No. 1, 1934, pp. 85-90.
*CFSTI TT 70-57082

Sci/phys
FEB 70

Study of the Electrical Conductivity and
Specific Gravity in a System of Fused Salts,
by S. Kargachev, A. Stromberg, O. Poltoratskaya,
17 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol V, No 6,
1934, pp 793-801.

20,538

OTS TT-63-20742
Sci Tr Center
RT-1799

Scientific - Chemistry

Jan 55
1955 CTS

Reduction of Iron Oxides by Gaseous Reducing
Agents. I. Velocity of Reduction of Ferric
Oxide by Hydrogen, by G. I. Chufarov, A. P.
Lopchitskaya.

RUSSIAN, per, Zhur Fiz Khim, Vol V, 1934,
pp 1103-1113.

DSIR LIU M.1547
(loan)

Sci - Chem
Sep 60

125,598

Reduction of Iron Oxides by Gaseous Reducing
Agents, II. The Rate of Reduction of Magnetic
Iron Oxide by Hydrogen, by G. I. Chufarov, B. D.
Auerbulk.

RUSSIAN, per, Zhur Fiz Khim, Vol V, 1934,
pp 1292-1298.

DSIR LNU M.1548
(loan)

125,600

Sci. - Chem
Sep 60

62-14072

Makareva, S.
DIFFUSION OF ELECTROLYTIC HYDROGEN
THROUGH METALLIC PALLADIUM. [1962] 16p.
(3 figs., 5 tables omitted).

Order from OIS or SLA \$1.10 62-14072

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1964.
v. 38, no. 10, p. 1389-1390.

DESCRIPTORS: Diffusion; Hydrogen; Palladium.

(Unannounced)

L. Makareva, S.

Office of Technical Services

Lebedev, S. V., Khozhlovkin, M. A. and others.
KINETICS OF THE PROCESS OF THERMAL POLY-
MERIZATION OF BUTADIENE. [1961] 11p. 16 refs.
Order from OTS or SLA \$1.60 61-18074

Trans. of Zhurnal Fizicheskoi Khimii (USSR) [1935]
v. 6, p. 130ff (also pub. in mosco. Lebedev, S. V.,
Life and Works, Leningrad, 1938, p. 647-662).

DESCRIPTORS: Butadienes, Polymerization, Reaction
Kinetics, Temperature, Velocity, Oxygen

Thermal polymerization of butadiene within the temper-
ature interval of 110-200° was investigated, and reac-
tion velocity curves obtained for each temperature. It
was established that the order of the reaction changes
with change of the temperature of the experiment. The
average order of the reaction determined according to
van't Hoff is approximately 1.5. The accelerating effect
(Chemistry--Physical, TT, v. 9, no. 2) (over)

61-18074

I. Lebedev, S. V.
II. Khozhlovkin, M. A.

Office of Technical Services

The Photochemical Reactions of Adsorbed Iodine
Molecules, by A. Terenin, 25 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol VI,
1935, pp 189-204. 9093974

AEC Tr-5185

Sci - Phys, Chem
Sep 62

212, 692

Mechanism of the Catalytic Oxidation of Sulfur
Dioxide in a Solution of Manganese Salts. I, by
M. K. Grodzovskiy, 26 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol. VI, 1935, pp
478-495.

SLA/R-2520

Sci
Apr 59

84,863

Mechanism of Catalytic Oxidation of SO_2 in a Solution of Manganese Salts, by M. K. Grödnovskiy,

RUSSIAN, per, Zhur Fiz Khim, Vol. VI, No 4, 1935, pp 496-510.

CSIRO-2966

Sci

Aug 53

71,191

Equilibrium between Liquid and Gas at High Pressures and Temperatures. 1. Solubility of Hydrogen in Individual Hydrocarbons of the Aromatic and Naphthenic Series, by V. V. Ipatieff and M. I. Levina, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol VI, No 5, 1935, pp 632-639.

SA R-2109

Sci

8

Aug 58?

71,193

Shcherbakov, I. G. and Shcherbakov, R. A.
ON THE THEORY OF ELECTROLYSIS OF MELTS:
THE YIELD BASED ON THE ENERGY IN THE
ELECTROLYSIS OF CARNALLITE. 2 Dec 36 [24p]
Srefs

Available on loan from SLA

TT-64-10728

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1935,
v. 6, p. 649-663.

DESCRIPTORS: *Fertilizers, *Minerals, Manufacturing
methods, Electrolysis, Theory, Electrochemistry,
Electrolytic cells, *Carnallite.

(Chemistry--Physical, TT, v. 11, no. 10)

TT-64-10728

I. Shcherbakov, I. G.
II. Shcherbakov, R. A.
III. Title: Yield...

Office of Technical Services

Theory of Overvoltage and the Simultaneous
Discharge of Ions, by O. A. Esin.

RUSSIAN, per, Zhur Fiz Khim, No 6, 1935,

pp 795-801

EZ

Sci -

Jul 67

334,167

The Action of Ozone on Activated Charcoal, by
B. Bruns, E. Kozlova, M. Maksimova.

RUSSIAN, per, Zh Fiz Khim, Vol VI, 1935, pp 977-984.

AEC Tr (Avail. Brook-
haven)

116, 6.70

Scientific - Chemistry

Nov 1949 CTS

Zh Fiz Khim Vol 6, page 1043-50 (1935)

Kinetics of Oxidation of Iron Chloride with
Atmospheric Oxygen Under Pressure

by V. V. Ipatieff, Jr., V. A. Komarov and
D. K. Kurmanaev

AEC Trans (avail. Brookhaven)

Temperature Dependence of the Viscosity
Coefficient in Uni-univalent Fused Salts, by
S. Karpachev, 11 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol VI, No 8,
1935, pp 1079-1085.

original name (1079-1085) CTS 68-20743

20,536

Sci Tr Center
RT-1811

Scientific - Chemistry

Jan 55
CTS

Effect of Some Experimental Factors on the
Geometrical Elements of Heat Curves, by K
Kurakin, N. Kalnen.
RUSSIAN, per, Zhurnal Fizicheskoi Khimii, Vol. 7,
1936, pp 405-417.
OSIRO/No 7081

Sci -
Aug 67

335-695

Raman Effect of Electrolytes in Non-Aqueous Solutions,
Part II, by M. S. Ashkinazi, P. V. Kurnosova, V. S.
Finkelstein.

RUSSIAN, ¹⁹³⁶per, Zhurnal Fizicheskoy Khimii, SSSR, Vol VII,
No 3, pp 438-443, 1936.

*NRL

Sci - Chemistry

The Possibility of Obtaining Atoms of Sulfur and
Phosphorus Outside of a Discharge, by N. M.
Gopshtein, S. Z. Roginskiy, 6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol VII, 1936, pp
587-591.

SLA/R-2594

Sci
Apr 59

84,862

Properties of Alkali Aluminate Solutions,
by V. Y. Kubatov and E. P. Fudr and S. P.
Shelkind, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, vol VII, 1936,
pp 899-908.

Sci

Aug 58

SLA R-2512
72, 837

Adherence of Bubbles to ~~Sol~~ Solid Surfaces, by
V. S. Sh Vengulovskiy, V. N. Pertsor. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol VIII, No 2,
1936, pp 245-255. 76769.7

May 2502/IRL 789

Sci - Physics
May 60

116,065

Properties of Metal Solutions, by V. K. Semchenko,
B. P. Bering, N. I. Pokrovskiy, 11 pp.

RUSSTAL, no par, Zhur Fiz Khim, Vol VIII, No 3, 1936.

HRL 197
Sci Tr Center RT 578

Scientific - Chemistry

24,436

(HY-4843)

Recombination of the Hydrogen Atom in an Adsorbed Layer, by O. I. Leypunskiy, 28 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol VIII, No 3, 1936, pp 438-457.

JPRB 5827

Sci - Chem

Oct 60

131,114

3hr fig Rhein

Vol 8, pp 290-4 (1936)

The Mechanism of Ethane Decomposition

H. V. Frost

AEC 32 285

Brookhaven

175/60

(NY-4843).

Recombinations of the Hydrogen Atom on an Absorbed
Layer, by O. I. Leypunskiy.

RUSSIAN, per, Zhur Fiz Khim, Vol VIII, No 3, 1936,
pp 458-457.

*JPRS

Sci-Chem

3 Aug 60

Diffusion of Metals in the Solid State as
a Function of Lattice Parameter and
Melting Temperature of the Metals, by
N. F. Lashko, et al.
RUSSIAN, per, Zhur. Fiz. Khim. Vol. 8
no. 4, 1936, pp. 597-599
*CFSTI TT 70-57027

Sci/phys
Feb 70

A Study of the Amorphous State. X. Conductivity of
Strong Electrolyte Solutions in the Amorphous State,
by P. P. Kobenko,

RUSSIAN, per, Zhur Fiz Khim, Vol IX, No 3, 1937,
pp 327-392.

Assoc Tech Sv RJ-458

36,969

\$8.00

PO Box 271, East Orange,
N. J.

Sci - Chemistry
Aug 1956

Leon'eva, A. A.
DETERMINATION OF BOUNDARIES OF SOFTENING
INTERVAL OF BINARY SYSTEM $\text{Na}_2\text{B}_4\text{O}_7\text{-B}_2\text{O}_3$
(Oprejelenie Granitsy Intervala Razmyagcheniya
Dvoynoi Sistemy $\text{Na}_2\text{B}_4\text{O}_7\text{-B}_2\text{O}_3$). [1963] [10p]
[foreign text included] 12 refs
Order from GTS, SLA, or ETC \$1.10 TT-64-10570

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1937,
v. 10, no. 2, p. 279-282.

DESCRIPTORS: *Glass, Sodium compounds, Boron
compounds, Oxides, Phase studies, Mechanical
properties, Melting, Physical chemistry.

(Materials--Ceramics, TT, v. 11, no. 5)

TT-64-10570

I. Leon'eva, A. A.

Office of Technical Services

Detonation in Gas Mixtures. III. The Effect of
Tetraethyllead on the Formation of the
Detonation Wave, by K. Shchekkin, A. Sokolik,
10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol X, No 3,
1937, pp 479-483.

JPRS 7150

Sci - Chem
Nov 60

133,613

(NY-4645)

On Radicals in Low-Pressure Hydrogen Flames,
by N. Kondrat'yev, M. Zilkin, 16 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol IX, No 4,
1937, pp 542-552.

JPRS 7152

Sci - Chem
Nov 60

133,614

Decomposition Potentials of Fused Electrolytes,
by I. P. Tverdovskiy, V. S. Molchanov, 22 pp.

RUSSIAN, ~~DEX~~, Zhur Fiz Khim, Vol IX, No 2,
1937, pp 239-251.

Sci Trans Center RT-954

Scientific - ~~Chemistry~~
CTS/DEX

Physics

SLA(LOAN) 63-18298(41p)

OTS TT-63-20767(26pp)

14,045

A
Electromotive Force of Fused Salt Concentration Cells,
by S. A. Pletenev [Plemenov] and V. N. Rozov, 20 pp.
UNCLASSIFIED

RUSSIAN, monthly per, Zhur Fiz Khim, Vol IX, 1937,
pp 354-56

AEC Tr 1318

Scientific - Physics

April 54 CTS/DEX

11, 802

(NY-4845).

The Spectrum of the Hydrogen Flame, by V.
Kondrat'yev, B. Zicklin, 12 pp.

RUSSIAN, per. Zhur Fiz Khim, Vol X, No 2, 1937, ~~pp 360-366~~
pp 360-366.

JPRS 7149

Sci - Phys, Chem
25 Nov 60

133, 296

178/60

(NV-4845).

Detonation in Gas Mixtures. III. The Effect of
Tetraethyl Lead on the Formation of Detonating
Waves, by K. Shchelkin, A. Sokolik.

RUSSIAN, per, Zhur Fiz Khim, Vol X, No 3, 1937,
pp 479-483.

*JPRS

Sci-Chem

11 Aug 60

Complex Fertilizers of the Type Nitrophos and
Amnophos, by A.M. Dubovitskii.
RUSSIAN, per, Zhur Khimicheskoi Promyshlennosti,
No 11, 1987, pp 496-504.
EZ

Sci -
Aug 87

336,506

Adsorption Layers in Disperse Systems. XVI. Flocculating and Flocculating Capacity of Soaps in a Homologous Series of Fatty Acids, by R. N. Serb-Servina, 13 pp.

RUSSIAN, part, Zhur Fiz Khim, Vol X, 1937, pp
627-635.

SLA R-3318

Bc1

Aug 59

93, 610

(int-100).

Explosion Limits of Gas Mixtures. V. Explosion
Limits of Hydrocarbon-Air Mixtures, by M. Rivin, A. Sabin
Sokolik, 14 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol K, No 4, 5,
1937, pp 692-699.

JPRS 7148

Sci - Phys, Chem
25 Nov 60

133,297

Use of Electrodialysis for Purification
of Cellulose and its Derivatives, by V.
A. Kargin and E. Y. Vinetskaya, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol X, 1937,
pp 788-792.

SLA R-2300

Sci

Aug 58

72,427

Determination of the Heat Capacities of
Nickelous Oxide, by A. F. Kapustinskiy,
K. A. Novosel'tsev, 11 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XI,
No 1, 1938, pp 6-67.

Ext Sci Tr Center RT-2845

Scientific - Chemistry; Min/Metals
Jan 56 CTS/dex

30, 210

Kinetics of the Catalytic Synthesis of Ammonia,
by M. T. Rusov, V. A. Roiter, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XI, 1938, pp
390-399.

SLA/R-2452

Sci
Apr 59

84,898

The Mechanism of Coagulation of Cellulose Enter
Sols, by S. A. Glikman,
RUSSIAN, per, Zh. Fiz. Khim, Vol 11, No 4, 1938,
pp 492-511.
NLL 5828.4F (11856)

Sci - BOM

~~Aug. 67~~

340,059

Sept.

Determination of the Mean Particle Size of a Metallic
Colloid Solution by Measuring Light Absorption in Two
Colours of Monochromatic Light, by M. F. Kazanskii,

RUSSIAN, per, Zhur Fiz Khim, Vol 11, ^{no} 4, 1938,
pp 546-554.

~~SECRET~~

^{Lib}
Sci Museum No 50/3598 - London

The Role of Sorption of Nitrogen in the Mechanism of
Ammonia Synthesis in the Presence of Technical Iron
Catalyst, by S. S. Gaukhman, V. A. Roiter, 10 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XI, 1958, pp 569-
577.

SIA/R-2453

Sci
Apr 59

84,860

The Free Energy of the Process of Synthesis of
Urea, by A. I. Krasilshchikov, 7 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XI, 1938, pp
664-669.

SLA/R-2454

Sci
Apr 59

84, 874

Hydrolysis of Pectin and Organic Salts with
Cellulose Esters, by S. A. Glikman.
RUSSIAN, per, Zh. Fiz. Khim., Vol 11, 1938,
pp 678-684.
NLL 5828.4F (11855)

Sci - Chem
Sept. 67

340,364

(NY 4835)

Proof of the Uniqueness of the Solution for the
Law of Mass Action Equation, by Ya. Zel'dovich,
4 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol. XI, No 5,
1938, pp 685-687.

JPRS 7048

Sci - Phys

Dec 60

134,417

The Electrical Conductivity and Viscosity
of Fused Salts, by S. Karpachev, A. Stromberg,
9 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol. XI, No 6,
1938, pp 852-857

20,537

CTS 77-63-20744
Sci Tr Center
KT-1798

Scientific-Chemistry Jan 55 CTS
K-H-20567 22.

Zel'dovich, Ya. B. and Frank-Kamenetskii, D. A.
THEORY OF THE THERMAL PROPAGATION OF
FLAMES (Teoriya Teplovogo Rasprostraneniya
Plameni). [1961] 11p. (Formulae omitted) 8 refs.
Order from GTS or SLA \$1.60 62-10348

Trans. of Zhurnal Fizicheskoi Khimii (USSR) 1938
[v. 12] no. 1 [p. 100-105]

DESCRIPTORS: *Flame propagation, *Combustion,
Reaction kinetics, Thermal conductivity, Chemical
reactions, Thermal expansion, Thermal diffusion,
Thermodynamics.

(Unannounced)

62-10348

I. Zel'dovich, Ya. B.
II. Frank-Kamenetskii, D. A.

Office of Technical Services

Zhur Fiz Khim Vol 12, page 326-31 (1938)

Preparation of Hydrogen Peroxide by the Explosion
Method. by N. V. Polyakov, E. V. Lifanov and
D. S. Nosenko.

AEC Trans (avail. Brookhaven)

61-22117

Franklin, A.
THE PHENOMENA OF WETTING AND ADHESION
OF BUBBLES, PT. I [1961] 9p.
Order from ATS \$14.00

ATS-19N19R

Trans. of Zhurnal Fizicheskoy Khimii (USSR)
1938, v. 12, no. 4, p. 337-345.

- I. Bubbles - Adhesion
1. Franklin, A.
- II. ATS-19N19R
- III. Associated Technical Services, Inc., East Orange, N. J.

198100

Office of Technical Services

(Unannounced)

RUSSIAN, no per, Zhur Fiz Khim, Vol XII, 1938,
pp 521-540.

*ATIC

Bio Lab T-500-1

R-7938-D
2 Feb 67

The dynamics of sorption

By: Zhikhovitskiy

From: Zhurnal Fizicheskoy Khimii V. XII No 3, 1939
pp 303-310 (8 pp)

Russian - est for wds:

Please translate and type 1 camera ready copy.
Document can be cut. Make cover T-500-1.

Vapor Pressure of Solutions at High Pressure of
Solutions, by I. R. Krichevskiy, E. Khazanova,
16 pp.

RUSSIAN, per Zhur Fiz Khim, Vol. XIII, 1939, pp
106-118.

SLA/R-2451

Sci.
Apr 59

84,878

Ternary System: Benzene - Toluene - Naphthalene,
by V. M. Kravchenko.
RUSSIAN, per, Zh Fiz Khim, Vol 13, No 1,
1939, pp 133-145.
ATS RJ-5015

Sci-Phys
Feb 69

373,822

Zh Fizicheskoy Khimii, Vol. XIII, No. 1, 1939, p. 146.

B. F. Pokhil, "New Method for Determining the Rate of
Diffusion (Mobility) of Surface Active Molecules on a
Solid-Gas Boundary Surface"

229 8528

A-2293.1

50 11/11/50

On the Work of S. Pletenev and V. Rozov:
"Cathode Polarization in the Electrolysis of
Melted", by S. Karpachev, 3 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 1,
1939, p 147.

20,535

Sci Tr Center
RT-2018

Scientific - Chemistry

Jan 55
Brought CTS

Reply to the Remarks of S. Karpachev,
by S. Pletenev, 2 pp. UNCLASSIFIED

RUSSIAN, per, Zhur Fiz Khim, Vol ~~XX~~ XIII,
No 1, 1939, pp 148⁶

20,549

Sci Tr Center
RT-2017

Scientific - Chemistry, Physics

Jan 55 CTS

(NY-4830)

Investigation of a Flame of CO and O₂, by
Ye. Kondrat'yeva, V. Kondrat'yev, 11² pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 2,
1939, pp 169-173.

JPRS 7308

Sci - Chem

Jan 61

138,708

Viscosity in Three-Component Systems Formed in Martin
Purnace Slag the System $\text{FeO}-\text{CaO}-\text{SiO}_2$, by P. P.
Kozakevich, S. P. Leiba, E. P. Kozak, 13 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp
248-258.

SLA R-2867

Sci

Jul 59

92,407

Activity of Urea in Aqueous Solutions,
by A. I. Krasil'shehikov and S. S. Tre'gina,
6 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939
pp 281-285.

SL₂ R-2184

Sci

Aug 58

72,147

A New Method for the Absorption of Aerosols and
Gases by Liquids, by Luchinskii, (H. L.

RUSSIAN, per, Zhurnal Fizicheskoi Khimii, 1939, Vol 13,
p 302.

Sci Museum Lib No 52/0359

On Solutions of Metallic Cadmium in Molten Chlorides,
by S. Karpachov, A. Stromberg, 12 pp.

RUSSIAN, *for*, Zhurnal Khim, Vol XIII, 1939, pp
397-405. #

ADC 3362

Sci - Chem

Nov 58

76,437

Diffusion Processes in Binary Crystalline
Systems, by B. G. Petrenko, et al.
RUSSIAN, per, Zhur. Fiz. Khim. Vol. 13,
no. 4, 1959, pp. 508-513.
*CFSTI TT 70-57028

Sci/phys
FEB 70

Polytherm of the Three-Component System $\text{HCl}-\text{HCl}_2\text{PCl}_4-\text{H}_2\text{O}$ at High Temperatures from -10.3 to 35° , by V. A. Polosin, M. I. Shakhparonov, 11 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 541-546.

SLA R-3355

Sci

Aug 59

93, 603

Thermodynamic Relations between the Dissociation Pressure and the Solubility of Strong Complex Electrolytes, by I. G. Ryas, 5 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 547-550.

SLA R-2627

Sci

Aug 58

72,757

TRI 62-135

Photochemical Decomposition of Ammonia Adsorbed on
Crystals of Copper Sulfate and Magnesium Oxide, by
V. Belosel'skiy.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939,
pp 586-592. 9089359-909143

*AEC Tr-506

Sci-Phys, Chem
May 62

Study of Electrical Conductivity of Molten
Carnallite, by A. A. Shcherbakov, B. F. Markov,
25 pp.

RUSSIAN, no par, Zhur Fiz Khim, Vol XIII, No 5,
1939, pp 621-630.

CTS - 77-62-4774
Sci Tr Center
RT-2288

Scientific - Chemistry
CTS 70/Jul 55

25, 224

Temperature Distribution in an Explosion Vessel
and Stationary Theory of Thermal Explosions, by B. A.
Frank-Kamenetskiy, 45 pp UNCLASSIFIED

RUSSIAN, Izv. Akad. Nauk Fiz. Khimii, Vol. XIII, No. 6,
1959, pp 750-755.

AEC 3051
Sci Tr Center
RT-1003

SLA TR R 2216
15,366

Scientific - Chemistry

Kinetics of Addition of Hypochlorous Acid at
the Double Bond. V. Formation of Ethylene
Dichloride From Ethylene and HOCl at Low Con-
centrations of Hydrochloric Acid, by E. A.
Shilov, et al. URCL

RUSSIAN, per, Zhur Fiz Khim, Vol XXII, 1939,
pp 759-766.

DSIR LLU M.1061

(loan)

108,405

Sci. Chem

Feb 60

Kinetics of Decomposition of Carbamide in
Aqueous Solution, by A. I. Krasilshchikov,
6 pp.

RUSSIAN, ⁴ per, Zhur Fiz Khim, Vol XIII, 1939,
pp 767-770.

SIA R-2178

Sci

Aug 58

72,187

Study of the Structure of the Fibre Surface by
a Method of Diffraction of Rapid Electrons,
by V. A. Kargin, D. I. Leipunskaya.
RUSSIAN, per, Zh. Fiz. Khim., Vol 13, No 6,
1939, pp 850
NLL 5828.4F (11852)

Sci - Phys

Aug 67

Sept.

340,061

kinetics of Ammonia Synthesis With a Promoted
Iron Catalyst, by M. Temkin and V. Pyzhnev, 19 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, No 7,
1939, pp 851-857.

ASBO Tech Svc 84T15R

SLA R-2932

Sci

Aug 58

69, 798

Induction Period in the Crystallization of Super-saturated Solutions, by E. Pozner, K. Asanov, K. Kostylev, 9 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 889-895.

SLA R-2840

Sci

Jul 59

92,425

Heterogeneous Catalysis of I₂O₂ by Manganese
Compounds, by O. W. Altschuler, et al.

UDCL

RUSSIAN, per, Zhur Fiz Khim, Vol VIII, No 7,
1989, pp 907-9

NAE 194

Sci - Chem
Doc 59

102, 457

The Photochemical Decomposition of Ammonia Adsorbed
on Crystals of CuSO_4 and MgO , by V. Belosel'skiy,
12 pp.

RUSSIAN, per, Zhur Fiz Khim, Vol XIII, 1939, pp 586-9
9089559

ARC Tr-5186

Sci - Phys, Chem
Aug 62

207,513

15 188

US-14

FRANK-KAMENETSKII D. A.

Temperature distribution in a reaction vessel and the equilibrium
theory of thermal explosions

Zhur. Fiz. Khim., 13, No. 6, 738-755 (1939)

RJ 2181. \$ 25.95 - English

E u r a t o m

Effect of Collision on the Behavior of Complex Excited
Molecules, by E. S. Nepporent, 34 pp. UNCLASSIFIED

RUSSIAN, no per. Zhur Fiz Khim, Vol XIII, No 7,
Jul 1939, pp 965-982.

ATIC F-TS-8161

17073

USSR
Scientific - Physics

9
CIA 2307070
ATIC 133835

Feb 54 CTS

9577

Abdulaev, Ya. A.
PHASE RELATIONS IN MIXTURES OF CARBON
DIOXIDE WITH HYDROGEN, NITROGEN AND CAR-
BON MONOXIDE, tr. by Bertha P. Klenova. 14 Dec 61,
3p. 3 refs. TVA-3967.

Trans. of [Zhurnal Fizicheskoi Khimii] (USSR) 1939,
v. 13, p. 986-988.

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62-24460

- I. Abdulaev, Ya. A.
- I. TVA-3967
- III. Tennessee Valley Authority,
Wilson Dam, Ala.

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